



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Darius Martin Sullivan  
 Title: CONTACT SENSITIVE DEVICE  
 Application No.: 10/751,588 Filed: January 5, 2004  
 Examiner: Not yet assigned Group Art Unit: 2858  
 Atty. Docket No.: 081-0002-1

May 24, 2004

Mail Stop Amendment  
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**INFORMATION DISCLOSURE STATEMENT**  
**37 C.F.R. § 1.97(b)**

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Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO-1449 (3 pages), including copy(ies) of 25 reference(s).  
☐ Other: \_\_\_\_\_

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

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2. a representation that a search has been made, other than as described below; or
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Pursuant to 1276 OG 55 (August 5, 2003), Information Disclosure Statements may be filed without copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract, (ii) an English language equivalent application, or (iii) if cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action that indicates the degree of relevance found by the foreign office.

FEE AUTHORIZATION

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.
- ☒ The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No. 50-0631.

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that, on the date shown below, this correspondence is being

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- ☐ facsimile transmitted to the US Patent and Trademark Office.

  
Mark Zagorin

5/24/04  
Date

Respectfully submitted,



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EXPRESS MAIL LABEL: \_\_\_\_\_

U.S. Department of Commerce, Patent and Trademark Office				Attorney Docket No.: 081-0002-1		
				Application No.: 10/751,588		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Applicant(s): Darius Martin Sullivan		
(Use several sheets if necessary)				Filing Date: January 5, 2004		
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				Date Submitted: May 24, 2004		
<b>U.S. Patent Documents</b>						
*Examiner Initial		Document Number	Date	Name		
	AA	4,246,439	Jan. 20, 1981	Romein		
	AB	4,389,711	Jun. 21, 1983	Hotta et al.		
	AC	4,393,268	Jul. 12, 1983	Guedj et al.		
	AD	5,161,126	Nov. 3, 1992	Marcus		
	AE	5,162,618	Nov. 10, 1992	Knowles		
	AF	5,305,239	Apr. 19, 1994	Kinra		
	AG	5,329,070	Jul. 12, 1994	Knowles		
	AH	5,412,189	May 2, 1995	Cragun		
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	AJ	5,591,945	Jan. 7, 1997	Kent		
	AK	5,628,031	May 6, 1997	Kikinis et al.		
<b>Foreign Patent Documents</b>						
					<b>Translation</b>	
		Document	Date	Country	Yes	No
	AL	0 296 569 A2	Dec. 28, 1988	Europe		
	AM	0 526 879 A1	Feb. 10, 1993	Europe		
	AN	0 597 228 A2	May 18, 1994	Europe		
	AO	0 656 603 A1	Jun. 7, 1995	Europe		
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
	AP	Bendat et al., Engineering Applications of Correlation and Spectral Analysis, Chapter 6 entitled "Propagation Path Identification" and Chapter 7 entitled "Single Input/Multiple Output Problems," a Wiley-Interscience Publication, 1980, pp. 121-167.				
	AQ	Brink, M. C., "The Acoustic Representation of Bending Waves", Laboratory of Acoustic Imaging and Sound Control, Delft University of Technology, November 2002, pp. i-69.				
	AR	Ishii Hiroshi, et al., "PingPongPlus: Design of an Athletic-Tangible Interface for Computer-Supported Cooperative Play", Published in the Proceedings of CHI'99, May 15-20, 1999, pp. 1-8.				
Examiner		Date Considered				
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p>						

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	AS	5,637,839	Jun. 10, 1997	Yamaguchi et al.		
	AT	5,638,093	Jun. 10, 1997	Takahashi et al.		
	AU	5,691,959	Nov. 25, 1997	Kriewall et al.		
	AV	5,717,434	Feb. 10, 1998	Toda		
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	AX	5,856,820	Jan. 5, 1999	Weigers et al.		
	AY	5,877,458	Mar. 2, 1999	Flowers		
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	BA	6,049,328	Apr. 11, 2000	Vanderheiden		
	BB	6,072,475	Jun. 6, 2000	van Ketwich		
	BC	6,091,406	Jul. 18, 2000	Kambara et al.		
<b>Foreign Patent Documents</b>						
					<b>Translation</b>	
		Document	Date	Country	Yes	No
	BD	FR 2 787 608 (with English abstract)	Jun. 23, 2000	France		X
	BE	GB 2 301 217 A	Nov. 27, 1996	United Kingdom		
	BF	WO 94/02911	Feb. 3, 1994	PCT		
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
	BG	Kim, Young Jin, et al., "Acoustic Generation in Liquid Crystals", September 27, 1999, Vol. 75, No. 13, pp. 1985-1987.				
	BH	Paradiso, J. A., et al., "Passive Acoustic Knock Tracking for Interactive Windows", ACM CHI 2002 Conference, Minneapolis, Minnesota, April 20-25, 2002, (2 pages).				
	BI	Paradiso, J. A., "Several Sensor Approaches that Retrofit Large Surfaces for Interactivity", ACM Ubicomp 2002 Workshop on Collaboration with Interactive Walls and Tables, Gothenburg, Sweden, September 29, 2002, pp. 1-8.				
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	BJ	6,157,373	Dec. 5, 2000	Rego		
	BK	6,160,757	Dec. 12, 2000	Täger et al.		
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	BM	6,335,725	Jan. 1, 2002	Koh et al.		
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	BO	6,384,743	May 7, 2002	Vanderheiden		
	BP	6,400,996	Jun. 4, 2002	Hoffberg et al.		
	BQ	US 2003/0066692 A1	Apr. 10, 2003	Devige et al.		
	BR	US 2001/0006006 A1	Jul. 5, 2001	Hill		
	BS	US 2002/0135570 A1	Sep. 26, 2002	Iisaka et al.		
<b>Foreign Patent Documents</b>						
					<b>Translation</b>	
		Document	Date	Country	Yes	No
	BT	WO 96/11378 (with English abstract)	Apr. 18, 1996	PCT		X
	BU	WO 97/09842	Mar. 13, 1997	PCT		
	BV	WO 97/09847	Mar. 13, 1997	PCT		
	BW	WO 00/38104	Jun. 29, 2000	PCT		
	BX	WO 01/48684 A2	Jul. 5, 2001	PCT		
	BY	WO 02/01490 A1	Jan. 3, 2002	PCT	X	
	BZ	WO 03/005292 A1	Jan. 16, 2003	PCT		
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### LIST OF PENDING U.S. PATENT APPLICATIONS

The following pending U.S. patent applications are listed for consideration by the Examiner.

- 1) U.S. Patent Application No. 10/750,290, filed December 31, 2003, entitled "TOUCH SENSITIVE DEVICE EMPLOYING IMPULSE RECONSTRUCTION" by Nicholas P.R. Hill and Darius M. Sullivan.
- 2) U.S. Patent Application No. 10/750,291, filed December 31, 2003, entitled "TOUCH SENSING WITH TOUCH DOWN AND LIFT OFF SENSITIVITY" by Nicholas P.R. Hill and Darius M. Sullivan.
- 3) U.S. Patent Application No. 10/750,502, filed December 31, 2003, entitled "TOUCH SENSITIVE DEVICE EMPLOYING BENDING WAVE VIBRATION SENSING AND EXCITATION TRANSDUCERS" by Nicholas P.R. Hill and Darius M. Sullivan.
- 4) U.S. Patent Application No. 10/482,865, filed January 5, 2004, entitled "CONTACT SENSITIVE DEVICE" by Darius Martin Sullivan.
- 5) U.S. Patent Application No. 10/729,540, filed December 5, 2003, entitled "CONTACT SENSITIVE DEVICE" by Darius Martin Sullivan and Nicholas Patrick Roland Hill.

***Applicant(s) are providing a separate list of pending applications, pursuant to MPEP § 609III(D), to avoid publication of the application numbers on any patent that issues from the above-identified application. Applicant(s) request that the Examiner indicate consideration of the pending applications listed above in accordance with MPEP 609III(C)(2) and return a copy of this page with the next communication.***